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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/047,193	01/15/2002	Lauri Paatero	9943-003US (2990568US/HM)	7915
570	7590 03/09/2005		EXAM	INER
AKIN GUMP STRAUSS HAUER & FELD L.L.P.			CALLAHAN, PAUL E	
ONE COMM	IERCE SQUARE			
2005 MARKET STREET, SUITE 2200			ART UNIT	PAPER NUMBER
	PHIA, PA 19103-7013		2137	

DATE MAILED: 03/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/047,193	PAATERO, LAURI			
		Examiner	Art Unit			
		Paul Callahan	2137			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reprepriod for reply is specified above, the maximum statutory period for the to reply within the set or extended period for reply will, by statutively received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).		nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	1)⊠ Responsive to communication(s) filed on <u>17 January 2002</u> .					
•	nis action is FINAL . 2b) This action is non-final.					
3)□						
Dispositi	on of Claims					
4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
10)⊠	The specification is objected to by the Examin The drawing(s) filed on 17 January 2002 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	e: a) accepted or b) objected or b) objected or b) objected or awing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	t(s) e of References Cited (PTO-892)	4) 🔲 Interview Summary	· (PTO-413)			
2) Notice	e of References Cited (PTO-692) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08	Paper No(s)/Mail D				

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DETAILED ACTION

1. Claims 1-8 are pending in this application and have been examined.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2, 4, and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herve US 4,471,216, and Dolan et al., US 5,604,810.

As for claims 1, 2, and 4, Herve teaches a method of producing a response with a device (abstract) comprising; an input for receiving an input calculation means for producing a response which is responsive to the input and a secret key by utilizing a first predetermined function (col. 1 lines 60-67, col. 2 lines 1-10), and an output for feeding said response further (col. 2 lines 1-10), Dolan teaches the features of the claim not taught by Herve, namely; storing in a memory of the device a key-specific number and a coded key which is calculated by means of the secret key, the

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key-specific number and a device-specific second predetermined function (col. 3 lines 65-67, col. 4 lines 1-18), and, when producing the response reading said key-specific number and coded key from the memory, calculating the secret key on the basis of said key-specific number and coded key by using the inverse function of said second predetermined function, and utilizing the calculated secret key to produce said response (col. 4 lines 1-15). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate this feature of Dolan et al. into the system of Herve. Motive to make this combination is found for example in col. 2 lines 10-20 of Dolan where the advantage of allowing smart-card authentication without revealing a secret key to a server is discussed.

1-284 PK



As for claims 6-8, these claims represent the apparatus carrying out the method of claims 1-5 and are therefore rejected on the same basis as those claims.

5. Claims 3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herve and Dolan as applied to claims 1 and 4 above, and further in view of Kocher, International Publication Number: WO 99/35782.

As for claim 3, the combination of Herve and Dolan fails to teach the method as claimed in claim 1, characterized by calculating and storing in the memory of the device a new coded key and a new key-specific number when the calculation means have utilized said first predetermined function a predetermined number of times. However Kocher does teach this feature (page 8 lines 25-33). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate this feature of Kocher into the system of Herve and Dolan. It would have been desirable to do so as this would increase the security of key storage.

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As for claim 5, the combination of Herve and Dolan fails to teach the device as claimed in claim 4, characterized in that the device comprises; coding means for calculating a new coded key by means of the secret key a new key-specific number to be fed to the coding means, and said second predetermined function, and that the device comprises means for replacing the coded key and the key-specific number stored in the memory with the new coded key calculated by the coding means, and the new key-specific number. However Kocher does teach these features (page 8 lines 25 through page 9 line 15). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate this feature of Kocher into the system of Herve and Dolan. It would have been desirable to do so as this would increase the security of key storage.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul E. Callahan whose telephone number is (571) 272-3869. The examiner can normally be reached on M-F from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Andrew Caldwell, can be reached on (571) 272-3868. The fax phone number for the organization where this application or proceeding is assigned is: (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

3/5/05 Paul Callerham

ANDREW CALDWELL

PERVISORY PATENT EXAMINER

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